

Abstract Of The Disclosure

An electronically commutatable motor, whose excitation
windings are controllable via semiconductor output stages
5 by an electronic control unit with the aid of PWM control
signals, a setpoint value being specifiable to the
control unit, and the control unit emitting corresponding
PWM control signals to the semiconductor output stages; a
motor characteristic curve, from which an assigned
10 nominal operating speed is derivable for the setpoint
value being stored in the control unit, and the derived
nominal operating speed being able to be compared to the
actual speed of the motor. If a predefinable or
predefined speed difference between the nominal operating
15 speed and the actual speed is exceeded, the control unit
and/or the semiconductor output stages can be switched
off. The derivation of the nominal operating speed for
the predefined setpoint value is facilitated by a
three-dimensional characteristics field determined by
20 four coordinate points.

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